

WISCONSIN MOTOR, LLC

EXECUTIVE ORDER U-R-039-0002 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)			
2002	2WMLL02.7TMD	2.7	Diesel	8000			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
Indirect Diesel Injection			Crane, Loader, Tractor, Pump, Compressor and Generator Se				

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER	EMISSION STANDARD			ı	EXHAUST (g/kw-l	OPACITY (%)				
CLASS	CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 <u><</u> KW < 75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		CERT		6.6				1	4	4

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this ______ day of June 2002.

Allen Lyons, Chief

Mobile Source Operations Division

Engine Model Summary Form ศักฬผพธงา 🥞 ۱ º 4 1

U-R-039-0002

Manufacturer: Wisconsin Motors, LLC.

Engine category: Nonroad Cl
EPA Engine Family: 2WMLL02.7TMD

Mfr Family Name: TMD27

New Submission Process Code:

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	+ 4 +	
8.Fuel Rate: (lbs/hr)@peak torque		
7.Fuel Rate: mm/stroke@peak torque	50.0	50.0
6.Torque @ RPM (SEA Gross)	121 @ 2 000	89 @ 2,000
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	29.7	23.0
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	47.5	47.5
3.BHP@RPM (SAE Gross)	66.5 @ 3.000	47.0
2.Engine Model	TMD27	TMD20
1.Engine Code 2.Engine Model	AN A	NA TMD20